

## SEQUENCE LISTING

&lt;110&gt; Synaptic Pharmaceutical Corporation

&lt;120&gt; DNA Encoding SNORF33 Receptor

&lt;130&gt; 59338-B-PCT

&lt;140&gt;

&lt;141&gt;

&lt;150&gt; 09/413,433

&lt;151&gt; 1999-10-06

&lt;150&gt; 09/322,257

&lt;151&gt; 1999-05-28

&lt;160&gt; 46

&lt;170&gt; PatentIn Ver. 2.1

&lt;210&gt; 1

&lt;211&gt; 573

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1

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cactgttggg attttggaga agtcttctgt aaaattcaca caagcaccga cattatgctg 120
agctcagcct ccattttcca tttgtcttcc atctccattg accgctacta tgctgtgtgt 180
gatccactga gatataaagc caagatgaat atcttggtta tttgtgtgat gatcttcatt 240
agttggagtg tccctgctgt ttttgcattt ggaatgatct ttctggagct aaacttcaaa 300
ggcgctgaag agatatatta caaacatggt cactgcagag gaggttgctc tgtcttcttt 360
agcaaaatat ctgggggtact gacctttatg acttcttttt atataacctgg atctattatg 420
ttatgtgtct attacagaat atatcttatc gctaaagaac aggcaagatt aattagtgat 480
gccaatcaga agctccaaat tggattggaa atgaaaaatg gaatttcaca aagcaaagaa 540
aggaaagctg tgaagacatt ggggattgtg atg 573

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&lt;210&gt; 2

&lt;211&gt; 191

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2

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Thr Val Asp Phe Leu Leu Gly Cys Leu Val Met Pro Tyr Ser Met Val
  1             5             10             15

```

Arg Ser Ala Glu His Cys Trp Tyr Phe Gly Glu Val Phe Cys Lys Ile  
                   20                  25                  30

His Thr Ser Thr Asp Ile Met Leu Ser Ser Ala Ser Ile Phe His Leu  
           35                  40                  45

Ser Phe Ile Ser Ile Asp Arg Tyr Tyr Ala Val Cys Asp Pro Leu Arg  
       50                  55                  60

Tyr Lys Ala Lys Met Asn Ile Leu Val Ile Cys Val Met Ile Phe Ile  
       65                  70                  75                  80

Ser Trp Ser Val Pro Ala Val Phe Ala Phe Gly Met Ile Phe Leu Glu  
                   85                  90                  95

Leu Asn Phe Lys Gly Ala Glu Glu Ile Tyr Tyr Lys His Val His Cys  
           100                  105                  110

Arg Gly Gly Cys Ser Val Phe Phe Ser Lys Ile Ser Gly Val Leu Thr  
           115                  120                  125

Phe Met Thr Ser Phe Tyr Ile Pro Gly Ser Ile Met Leu Cys Val Tyr  
       130                  135                  140

Tyr Arg Ile Tyr Leu Ile Ala Lys Glu Gln Ala Arg Leu Ile Ser Asp  
       145                  150                  155                  160

Ala Asn Gln Lys Leu Gln Ile Gly Leu Glu Met Lys Asn Gly Ile Ser  
           165                  170                  175

Gln Ser Lys Glu Arg Lys Ala Val Lys Thr Leu Gly Ile Val Met  
           180                  185                  190

<210> 3

<211> 1101

<212> DNA

<213> Rattus norvegicus

<400> 3

attgctcgac agccaaaggg acagagcagc ctgtgttttag ttctctgtag tgatgcatct 60  
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 ttcgctgtac agcttaatat cactcataat tctaaccact ctggttgga acttaatagt 180  
 aatcatttcg atatcccact tcaagcaact tcacacgccc acaaattggc tccttcattc 240  
 catggccgtt gtcgactttc tgctgggctg tctggtcatg ccctacagca tgggtgagaac 300  
 agttgagcac tgctggtact ttggggaact cttctgcaaa cttcacacca gcactgatat 360  
 catgctgagc tcggcatcca ttctccacct agccttcatt tccattgacc gctactatgc 420  
 tgtgtgcgac cctttaagat acaaagccaa gatcaatctc gccgccattt ttgtgatgat 480

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cctcattagc tggagccttc ctgctgtttt tgcatttggg atgatcttcc tggagctgaa 540
cttagaagga gttgaggagc tgtatcacaa tcaggtcttc tgcccgcgcg gctgttttcc 600
cttcttcagt aaagtatctg gggactggc attcatgacg tctttctata tacctggatc 660
tggtatgtta tttgtttact atagaatata tttcatagct aaaggacaag caaggtcaat 720
taatcgtgca aatcttcaag ttggattgga aggggaaagc agagcgccac aaagcaagga 780
aacaaaagcc gcgaaaacct tagggatcat ggtgggcgtt ttctctctgt gctggtgccc 840
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tttctatccc tggttcagaa gagcgttgaa gatggttctc ttcggtaaaa ttttccaaaa 1020
agattcatct aggtctaagt tatttttgta acgcaatcca tgaaaccagt atattttgta 1080
gttcttaaga gcagttggtg a 1101

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&lt;210&gt; 4

&lt;211&gt; 332

&lt;212&gt; PRT

&lt;213&gt; Rattus norvegicus

&lt;400&gt; 4

```

Met His Leu Cys His Asn Ser Ala Asn Ile Ser His Thr Asn Ser Asn
  1              5              10              15

```

```

Trp Ser Arg Asp Val Arg Ala Ser Leu Tyr Ser Leu Ile Ser Leu Ile
          20              25              30

```

```

Ile Leu Thr Thr Leu Val Gly Asn Leu Ile Val Ile Ile Ser Ile Ser
          35              40              45

```

```

His Phe Lys Gln Leu His Thr Pro Thr Asn Trp Leu Leu His Ser Met
          50              55              60

```

```

Ala Val Val Asp Phe Leu Leu Gly Cys Leu Val Met Pro Tyr Ser Met
          65              70              75              80

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```

Val Arg Thr Val Glu His Cys Trp Tyr Phe Gly Glu Leu Phe Cys Lys
          85              90              95

```

```

Leu His Thr Ser Thr Asp Ile Met Leu Ser Ser Ala Ser Ile Leu His
          100              105              110

```

```

Leu Ala Phe Ile Ser Ile Asp Arg Tyr Tyr Ala Val Cys Asp Pro Leu
          115              120              125

```

```

Arg Tyr Lys Ala Lys Ile Asn Leu Ala Ala Ile Phe Val Met Ile Leu
          130              135              140

```

```

Ile Ser Trp Ser Leu Pro Ala Val Phe Ala Phe Gly Met Ile Phe Leu
          145              150              155              160

```

Glu Leu Asn Leu Glu Gly Val Glu Glu Leu Tyr His Asn Gln Val Phe  
 165 170 175

Cys Leu Arg Gly Cys Phe Pro Phe Phe Ser Lys Val Ser Gly Val Leu  
 180 185 190

Ala Phe Met Thr Ser Phe Tyr Ile Pro Gly Ser Val Met Leu Phe Val  
 195 200 205

Tyr Tyr Arg Ile Tyr Phe Ile Ala Lys Gly Gln Ala Arg Ser Ile Asn  
 210 215 220

Arg Ala Asn Leu Gln Val Gly Leu Glu Gly Glu Ser Arg Ala Pro Gln  
 225 230 235 240

Ser Lys Glu Thr Lys Ala Ala Lys Thr Leu Gly Ile Met Val Gly Val  
 245 250 255

Phe Leu Leu Cys Trp Cys Pro Phe Phe Phe Cys Met Val Leu Asp Pro  
 260 265 270

Phe Leu Gly Tyr Val Ile Pro Pro Thr Leu Asn Asp Thr Leu Asn Trp  
 275 280 285

Phe Gly Tyr Leu Asn Ser Ala Phe Asn Pro Met Val Tyr Ala Phe Phe  
 290 295 300

Tyr Pro Trp Phe Arg Arg Ala Leu Lys Met Val Leu Phe Gly Lys Ile  
 305 310 315 320

Phe Gln Lys Asp Ser Ser Arg Ser Lys Leu Phe Leu  
 325 330

<210> 5

<211> 1038

<212> DNA

<213> Homo sapiens

<400> 5

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 tcaaattgatg tccgtgcttc cctgtacagt ttaattggtgc tcataattct gaccacactc 120  
 gttggcaatc tgatagttat tgtttctata tcacacttca aacaacttca taccccaaca 180  
 aattggctca ttcattccat ggccactgtg gactttcttc tggggtgtct ggtcatgcct 240  
 tacagtatgg tgagatctgc tgagcactgt tggtattttg gagaagtctt ctgtaaaatt 300  
 cacacaagca ccgacattat gctgagctca gcctccattt tccatttgtc tttcatctcc 360  
 attgaccgct actatgctgt gtgtgatcca ctgagatata aagccaagat gaatatcttg 420

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gttatttgtg tgatgatctt cattagttgg agtgtccctg ctgtttttgc atttggaatg 480
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agaggagggt gctctgtctt ctttagcaaa atatctgggg tactgacctt tatgacttct 600
ttttatatac ctggatctat tatgttatgt gtctattaca gaatatatct tatcgctaaa 660
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aatggaattt cacaaagcaa agaaaggaaa gctgtgaaga cattggggat tgtgatggga 780
gttttcctaa tatgctgggt ccctttcttt atctgtacag tcatggaccc ttttcttcac 840
tacattattc cacctacttt gaatgatgtg ttgatttggg ttggctactt gaactctaca 900
tttaatccaa tggtttatgc atttttctat ccttgggtta gaaaagcact gaagatgatg 960
ctgtttggta aaattttcca aaaagattca tccaggtgta aattattttt ggaattgagt 1020
tcatagaatt attatatt                                     1038

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&lt;210&gt; 6

&lt;211&gt; 339

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 6

```

Met Met Pro Phe Cys His Asn Ile Ile Asn Ile Ser Cys Val Lys Asn
  1              5              10              15

```

```

Asn Trp Ser Asn Asp Val Arg Ala Ser Leu Tyr Ser Leu Met Val Leu
          20              25              30

```

```

Ile Ile Leu Thr Thr Leu Val Gly Asn Leu Ile Val Ile Val Ser Ile
      35              40              45

```

```

Ser His Phe Lys Gln Leu His Thr Pro Thr Asn Trp Leu Ile His Ser
      50              55              60

```

```

Met Ala Thr Val Asp Phe Leu Leu Gly Cys Leu Val Met Pro Tyr Ser
      65              70              75              80

```

```

Met Val Arg Ser Ala Glu His Cys Trp Tyr Phe Gly Glu Val Phe Cys
          85              90              95

```

```

Lys Ile His Thr Ser Thr Asp Ile Met Leu Ser Ser Ala Ser Ile Phe
      100              105              110

```

```

His Leu Ser Phe Ile Ser Ile Asp Arg Tyr Tyr Ala Val Cys Asp Pro
      115              120              125

```

```

Leu Arg Tyr Lys Ala Lys Met Asn Ile Leu Val Ile Cys Val Met Ile
      130              135              140

```

```

Phe Ile Ser Trp Ser Val Pro Ala Val Phe Ala Phe Gly Met Ile Phe
      145              150              155              160

```

Leu Glu Leu Asn Phe Lys Gly Ala Glu Glu Ile Tyr Tyr Lys His Val  
 165 170 175  
 His Cys Arg Gly Gly Cys Ser Val Phe Phe Ser Lys Ile Ser Gly Val  
 180 185 190  
 Leu Thr Phe Met Thr Ser Phe Tyr Ile Pro Gly Ser Ile Met Leu Cys  
 195 200 205  
 Val Tyr Tyr Arg Ile Tyr Leu Ile Ala Lys Glu Gln Ala Arg Leu Ile  
 210 215 220  
 Ser Asp Ala Asn Gln Lys Leu Gln Ile Gly Leu Glu Met Lys Asn Gly  
 225 230 235 240  
 Ile Ser Gln Ser Lys Glu Arg Lys Ala Val Lys Thr Leu Gly Ile Val  
 245 250 255  
 Met Gly Val Phe Leu Ile Cys Trp Cys Pro Phe Phe Ile Cys Thr Val  
 260 265 270  
 Met Asp Pro Phe Leu His Tyr Ile Ile Pro Pro Thr Leu Asn Asp Val  
 275 280 285  
 Leu Ile Trp Phe Gly Tyr Leu Asn Ser Thr Phe Asn Pro Met Val Tyr  
 290 295 300  
 Ala Phe Phe Tyr Pro Trp Phe Arg Lys Ala Leu Lys Met Met Leu Phe  
 305 310 315 320  
 Gly Lys Ile Phe Gln Lys Asp Ser Ser Arg Cys Lys Leu Phe Leu Glu  
 325 330 335  
 Leu Ser Ser

&lt;210&gt; 7

&lt;211&gt; 25

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: primer/probe

&lt;400&gt; 7

ttatgcttcc ggctcgtatg ttgtg

25

<210> 8  
<211> 26  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: primer/probe

<400> 8  
atgtgctgca aggcgattaa gttggg 26

<210> 9  
<211> 23  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: primer/probe

<220>  
<223> n = A, C, T or G (or other modified base such as  
inosine)

<400> 9  
tnnkntgytg gytnccntty tty 23

<210> 10  
<211> 22  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: primer/probe

<220>  
<223> n = A, C, T, or G (or other modified base such as  
inosine)

<400> 10  
arnswrttnv nrtanccnar cc 22

<210> 11  
<211> 63

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer/probe

<400> 11

ttctgcatgg tcctggaccc tttcctgggc tatgttatcc caccactct gaatgacaca 60  
ctg 63

<210> 12

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer/probe

<400> 12

cataattcta accactctgg ttgg 24

<210> 13

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer/probe

<400> 13

ctgaaccagg gatagaaaaa ggc 23

<210> 14

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer/probe

<400> 14

tccgtaggat ccaattggct cattcattcc atggcc 36

<210> 15



<211> 36  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: primer/probe

<400> 15  
agctacaagc ttgcaccagc atattaggaa aactcc 36

<210> 16  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: primer/probe

<400> 16  
cagcataatg tcggtgcttg tgtg 24

<210> 17  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: primer/probe

<400> 17  
tactgtaagg catgaccaga cacc 24

<210> 18  
<211> 25  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: primer/probe

<400> 18  
attagtgatg ccaatcagaa gctcc 25

<210> 19

<211> 25  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence: primer/probe  
  
<400> 19  
gaaaggaaaag ctgtgaagac attgg 25  
  
<210> 20  
<211> 37  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence: primer/probe  
  
<400> 20  
gatctaggat ccgaaaaagt aaactgattg acagccc 37  
  
<210> 21  
<211> 37  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence: primer/probe  
  
<400> 21  
ctagctaagc ttgatcatca accgatttgc aaaacag 37  
  
<210> 22  
<211> 21  
<212> DNA  
<213> Artificial Sequence  
  
<220>  
<223> Description of Artificial Sequence: primer/probe  
  
<400> 22  
catggccact gtggactttc t 21  
  
<210> 23

<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: primer/probe

<400> 23  
gtcggtgctt gtgtgaattt taca 24

<210> 24  
<211> 31  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: primer/probe

<400> 24  
atggtgagat ctgctgagca ctgttggtat t 31

<210> 25  
<211> 18  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: primer/probe

<400> 25  
tgcattggtcc tggaccct 18

<210> 26  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: primer/probe

<400> 26  
tcgggttgaa ggcagagttc 20

<210> 27

&lt;211&gt; 29

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: primer/probe

&lt;400&gt; 27

tgggctatgt tatcccaccc actctgaat

29

&lt;210&gt; 28

&lt;211&gt; 45

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: primer/probe

&lt;400&gt; 28

cacacgaaca gcaactggtc aagggatgtc cgtgcttcgc tgtac

45

&lt;210&gt; 29

&lt;211&gt; 45

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: primer/probe

&lt;400&gt; 29

gtacagcgaa gcacggacat cccttgacca gttgctgttc gtgtg

45

&lt;210&gt; 30

&lt;211&gt; 252

&lt;212&gt; DNA

&lt;213&gt; mouse

&lt;400&gt; 30

ggtactggcg ttcatgactt ccttctatat acctggatct gttatgttat ttgtttacta 60  
 taggatatat ttcatagcta aaggacaagc aagggtcaatc aatcgtagca atgttcaagt 120  
 tggattggaa gggaaaagcc aagcaccaca aagcaaggaa acaaaaagccg cgaagacctt 180  
 agggatcatg gtgggcgttt tctctgtatg ctggtgcccg ttctttctct gcacggtcct 240  
 ggaccctttc ct 252

<210> 31  
 <211> 83  
 <212> PRT  
 <213> mouse

<400> 31  
 Val Leu Ala Phe Met Thr Ser Phe Tyr Ile Pro Gly Ser Val Met Leu  
           1                  5                  10                  15  
 Phe Val Tyr Tyr Arg Ile Tyr Phe Ile Ala Lys Gly Gln Ala Arg Ser  
                   20                  25                  30  
 Ile Asn Arg Thr Asn Val Gln Val Gly Leu Glu Gly Lys Ser Gln Ala  
                   35                  40                  45  
 Pro Gln Ser Lys Glu Thr Lys Ala Ala Lys Thr Leu Gly Ile Met Val  
           50                  55                  60  
 Gly Val Phe Leu Val Cys Trp Cys Pro Phe Phe Leu Cys Thr Val Leu  
           65                  70                  75                  80  
 Asp Pro Phe

<210> 32  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: primer/probe

<400> 32  
 actctggttg gcaacttaat agt 23

<210> 33  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: primer/probe

<400> 33  
 gcataaacca tcgggttgaa ggc 23

<210> 34  
 <211> 37  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: primer/probe

<400> 34  
 tatcgcggat ccggtactgg cgttcatgac ttccttc 37

<210> 35  
 <211> 36  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: primer/probe

<400> 35  
 ccagctaagc ttaggaaagg gtccaggacc gtgcag 36

<210> 36  
 <211> 1031  
 <212> DNA  
 <213> mouse

<400> 36  
 tgcagtgatg catctttgcc acgctatcac aaacatttcc cacagaaaca gcgactggtc 60  
 aagagaagtc caagcttccc tgtacagctt aatgtcactc ataatcctgg ccactctggt 120  
 tggcaactta atagtaataa tttccatata ccatttcaag caacttcata caccacacaa 180  
 ctggctcctt cactccatgg ccattgtcga ctttctgctg ggctgtctga taatgccctg 240  
 cagcatgggtg agaactgttg agcgctgttg gtattttggg gaaatcctct gtaaagttca 300  
 caccagcacc gatatcatgc tgagctccgc ctccattttc cacttagctt tcatttccat 360  
 tgaccgctac tgtgctgtgt gtgacccttt gagatacaaa gccaaagatca atatctccac 420  
 tattcttgtg atgatactcg ttagttggag ccttctgct gtttatgcat ttgggatgat 480  
 cttcctggaa ctgaacttaa aaggagtggg agagctgtat cgcagtcagg tcagcgacct 540  
 gggcggtgtg tctcccttct ttagtaaaagt atctggggta ctggcggttca tgacttcctt 600  
 ctatatacct ggatctgtta tgttatttgt ttactatagg atatatttca tagctaaagg 660  
 acaagcaagg tcaatcaatc gtacgaatgt tcaagttgga ttggaaggga aaagccaagc 720  
 accacaaagc aaggaaacaa aagccgcgaa gacctagggt atcatggtgg gcgttttctt 780  
 cgtatgctgg tgcccgttct ttctctgcac ggtcctggac ccttctctgg gctatgttat 840  
 cccaccctct ctgaatgacg cactgtattg gtttgggtac ttgaattctg ccctcaatcc 900  
 gatggtttat gcctttttct atccctgggt cagaagagcc ttgaagatgg ttctccttgg 960  
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cccatgtatt t

1031

&lt;210&gt; 37

&lt;211&gt; 332

&lt;212&gt; PRT

&lt;213&gt; mouse

&lt;400&gt; 37

Met	His	Leu	Cys	His	Ala	Ile	Thr	Asn	Ile	Ser	His	Arg	Asn	Ser	Asp
1				5					10					15	

Trp	Ser	Arg	Glu	Val	Gln	Ala	Ser	Leu	Tyr	Ser	Leu	Met	Ser	Leu	Ile
			20					25					30		

Ile	Leu	Ala	Thr	Leu	Val	Gly	Asn	Leu	Ile	Val	Ile	Ile	Ser	Ile	Ser
		35					40					45			

His	Phe	Lys	Gln	Leu	His	Thr	Pro	Thr	Asn	Trp	Leu	Leu	His	Ser	Met
	50					55					60				

Ala	Ile	Val	Asp	Phe	Leu	Leu	Gly	Cys	Leu	Ile	Met	Pro	Cys	Ser	Met
65					70					75					80

Val	Arg	Thr	Val	Glu	Arg	Cys	Trp	Tyr	Phe	Gly	Glu	Ile	Leu	Cys	Lys
				85					90					95	

Val	His	Thr	Ser	Thr	Asp	Ile	Met	Leu	Ser	Ser	Ala	Ser	Ile	Phe	His
			100					105					110		

Leu	Ala	Phe	Ile	Ser	Ile	Asp	Arg	Tyr	Cys	Ala	Val	Cys	Asp	Pro	Leu
	115						120					125			

Arg	Tyr	Lys	Ala	Lys	Ile	Asn	Ile	Ser	Thr	Ile	Leu	Val	Met	Ile	Leu
	130					135					140				

Val	Ser	Trp	Ser	Leu	Pro	Ala	Val	Tyr	Ala	Phe	Gly	Met	Ile	Phe	Leu
145					150					155					160

Glu	Leu	Asn	Leu	Lys	Gly	Val	Glu	Glu	Leu	Tyr	Arg	Ser	Gln	Val	Ser
				165					170					175	

Asp	Leu	Gly	Gly	Cys	Ser	Pro	Phe	Phe	Ser	Lys	Val	Ser	Gly	Val	Leu
		180						185					190		

Ala	Phe	Met	Thr	Ser	Phe	Tyr	Ile	Pro	Gly	Ser	Val	Met	Leu	Phe	Val
		195					200					205			

Tyr Tyr Arg Ile Tyr Phe Ile Ala Lys Gly Gln Ala Arg Ser Ile Asn  
 210 215 220

Arg Thr Asn Val Gln Val Gly Leu Glu Gly Lys Ser Gln Ala Pro Gln  
 225 230 235 240

Ser Lys Glu Thr Lys Ala Ala Lys Thr Leu Gly Ile Met Val Gly Val  
 245 250 255

Phe Leu Val Cys Trp Cys Pro Phe Phe Leu Cys Thr Val Leu Asp Pro  
 260 265 270

Phe Leu Gly Tyr Val Ile Pro Pro Ser Leu Asn Asp Ala Leu Tyr Trp  
 275 280 285

Phe Gly Tyr Leu Asn Ser Ala Leu Asn Pro Met Val Tyr Ala Phe Phe  
 290 295 300

Tyr Pro Trp Phe Arg Arg Ala Leu Lys Met Val Leu Leu Gly Lys Ile  
 305 310 315 320

Phe Gln Lys Asp Ser Ser Arg Ser Lys Leu Phe Leu  
 325 330

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer/probe

<400> 38

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24

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer/probe

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24



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